RAW SEQUENCE LISTING ERROR REPORT
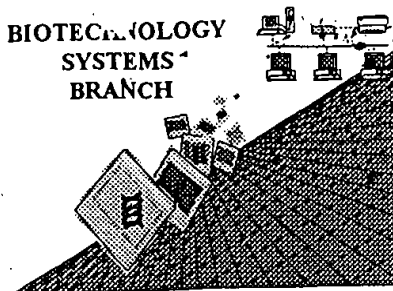
The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: _09/766447_

Source: _OIPE_

Date Processed by STIC: _08/16/2001_

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY
FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.
PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)
PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER VERSION 3.0 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.
Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO).
Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

<u>Checker Version 3.0 can be down loaded from the USPTO website at the following address:</u>
http://www.uspto.gov/web/offices/pac/checker

Raw Sequence Listing Error Summary

ERROR DETECTED   **SUGGESTED CORRECTION**   SERIAL NUMBER: _09/766 44 2_

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1 ____ Wrapped Nucleics   The number/text at the end of each line "wrapped" down to the next line. This may occur if your file
Wrapped Aminos   was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will
prevent "wrapping."

2 ____ Invalid Line Length   The rules require that a line not exceed 72 characters in length. This includes white spaces.

3 ____ Misaligned Amino   The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers;
Numbering   use space characters, instead.

4 ____ Non-ASCII   The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please
ensure your subsequent submission is saved in ASCII text.

5 ____ Variable Length   Sequence(s)____ contain n's or Xaa's representing more than one residue. Per Sequence Rules,
each n or Xaa can only represent a single residue. Please present the maximum number of each
residue having variable length and indicate in the <220>-<223> section that some may be missing.

6 ____ PatentIn 2.0   A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid
"bug"   sequences(s) _____. Normally, PatentIn would automatically generate this section from the
previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to
the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for
Artificial or Unknown sequences.

7 ____ Skipped Sequences   Sequence(s) ____ missing. If intentional, please insert the following lines for each skipped sequence:
(OLD RULES)   (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i)   SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.

8 ____ Skipped Sequences   Sequence(s) ____ missing. If intentional, please insert the following lines for each skipped sequence.
(NEW RULES)   <210> sequence id number
<400> sequence id number
000

9 ____ Use of n's or Xaa's   Use of n's and/or Xaa's have been detected in the Sequence Listing.
(NEW RULES)   Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

10 ____ Invalid <213>   Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or
Response   scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or
is Artificial Sequence

11 _✓_ Use of <220>   Sequence(s) _7 1_ missing the <220> "Feature" and associated numeric identifiers and responses.
Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or
"Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32)   (Sec. 1.823 of Sequence Rules)

12 ____ PatentIn 2.0   Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file,
"bug"   resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence
listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

AMC – Biotechnology Systems Branch – 06/04/2001

The type of errors shown may exist throughout
the Sequence Listing. Please check subsequent
sequences for similar errors.

OIPE

```
RAW SEQUENCE LISTING                     DATE: 08/16/2001
PATENT APPLICATION:  US/09/766,442       TIME: 12:50:29

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         Output Set: N:\CRF3\08162001\I766442.raw
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 3 <110> APPLICANT: Audonnet, Jean-Christophe
 5 <120> TITLE OF INVENTION: IMPROVED DNA VACCINES FOR FARM ANIMALS,
 6       IN PARTICULAR BOVINES AND PROCINES
 8 <130> FILE REFERENCE: 454313-3154.2
10 <140> CURRENT APPLICATION NUMBER: 09/766,442
C--> 11 <141> CURRENT FILING DATE: 2001-01-19
13 <160> NUMBER OF SEQ ID NOS: 106
15 <170> SOFTWARE: PatentIn version 3.0
17 <210> SEQ ID NO: 1
18 <211> LENGTH: 40
19 <212> TYPE: DNA
20 <213> ORGANISM: Artificial Sequence
22 <220> FEATURE:
23 <223> OTHER INFORMATION: oligonucleotide
25 <400> SEQUENCE: 1
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29 <210> SEQ ID NO: 2
30 <211> LENGTH: 40
31 <212> TYPE: DNA
32 <213> ORGANISM: Artificial Sequence
34 <220> FEATURE:
35 <223> OTHER INFORMATION: oligonucleotide
37 <400> SEQUENCE: 2
38 gatccgcggc cgcgaattcg atatcctcta gacacgtgct                      40
41 <210> SEQ ID NO: 3
42 <211> LENGTH: 20
43 <212> TYPE: DNA
44 <213> ORGANISM: Artificial Sequence
46 <220> FEATURE:
47 <223> OTHER INFORMATION: oligonucleotide
49 <400> SEQUENCE: 3
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54 <211> LENGTH: 21
55 <212> TYPE: DNA
56 <213> ORGANISM: Artificial Sequence
58 <220> FEATURE:
59 <223> OTHER INFORMATION: oligonucleotide
61 <400> SEQUENCE: 4
62 ctgtaggaaa aagaagaagg c                                          21
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66 <211> LENGTH: 30
67 <212> TYPE: DNA
68 <213> ORGANISM: Artificial Sequence
70 <220> FEATURE:
71 <223> OTHER INFORMATION: oligonucleotide
73 <400> SEQUENCE: 5
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Does Not Comply
Corrected Diskette Needed
See page 6 of 7A

Errored
Chuck Prkette

RAW SEQUENCE LISTING   DATE: 08/16/2001
PATENT APPLICATION: US/09/766,442   TIME: 12:50:29

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Output Set: **N:\CRF3\08162001\I766442.raw**

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 83 <223> OTHER INFORMATION: oligonucleotide
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 90 <211> LENGTH: 30
 91 <212> TYPE: DNA
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 95 <223> OTHER INFORMATION: oligonucleotide
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104 <213> ORGANISM: Artificial Sequence
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115 <212> TYPE: DNA
116 <213> ORGANISM: Artificial Sequence
118 <220> FEATURE:
119 <223> OTHER INFORMATION: oligonucleotide
121 <400> SEQUENCE: 9
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127 <212> TYPE: DNA
128 <213> ORGANISM: Artificial Sequence
130 <220> FEATURE:
131 <223> OTHER INFORMATION: oligonucleotide
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137 <210> SEQ ID NO: 11
138 <211> LENGTH: 39
139 <212> TYPE: DNA
140 <213> ORGANISM: Artificial Sequence
142 <220> FEATURE:
143 <223> OTHER INFORMATION: oligonucleotide
145 <400> SEQUENCE: 11
146 aaaatttcga tatccgccgc ggggcgaccg gcgacaacg                           39
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RAW SEQUENCE LISTING   DATE: 08/16/2001
PATENT APPLICATION: US/09/766,442   TIME: 12:50:29

Input Set : A:\00023546.txt
Output Set: N:\CRF3\08162001\I766442.raw

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157 <400> SEQUENCE: 12
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163 <212> TYPE: DNA
164 <213> ORGANISM: Artificial Sequence
166 <220> FEATURE:
167 <223> OTHER INFORMATION: oligonucleotide
169 <400> SEQUENCE: 13
170 tcgtgcctgc ggcgcaaggc ccgggcgcgc ctgtagt                        37
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174 <211> LENGTH: 37
175 <212> TYPE: DNA
176 <213> ORGANISM: Artificial Sequence
178 <220> FEATURE:
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187 <212> TYPE: DNA
188 <213> ORGANISM: Artificial Sequence
190 <220> FEATURE:
191 <223> OTHER INFORMATION: oligonucleotide
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198 <211> LENGTH: 43
199 <212> TYPE: DNA
200 <213> ORGANISM: Artificial Sequence
202 <220> FEATURE:
203 <223> OTHER INFORMATION: oligonucleotide
205 <400> SEQUENCE: 16
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212 <213> ORGANISM: Artificial Sequence
214 <220> FEATURE:
215 <223> OTHER INFORMATION: oligonucleotide
217 <400> SEQUENCE: 17
218 aaaatttcga tatcccggcg ggggctcgcc gaggaggcg                      39
221 <210> SEQ ID NO: 18
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RAW SEQUENCE LISTING   DATE: 08/16/2001
PATENT APPLICATION: US/09/766,442   TIME: 12:50:29

Input Set : A:\00023546.txt
Output Set: N:\CRF3\08162001\I766442.raw

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229 <400> SEQUENCE: 18
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234 <211> LENGTH: 33
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236 <213> ORGANISM: Artificial Sequence
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239 <223> OTHER INFORMATION: oligonucleotide
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247 <212> TYPE: DNA
248 <213> ORGANISM: Artificial Sequence
250 <220> FEATURE:
251 <223> OTHER INFORMATION: oligonucleotide
253 <400> SEQUENCE: 20
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260 <213> ORGANISM: Artificial Sequence
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272 <213> ORGANISM: Artificial Sequence
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282 <211> LENGTH: 34
283 <212> TYPE: DNA
284 <213> ORGANISM: Artificial Sequence
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289 <400> SEQUENCE: 23
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293 <210> SEQ ID NO: 24
294 <211> LENGTH: 35

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296 <213> ORGANISM: Artificial Sequence
298 <220> FEATURE:
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301 <400> SEQUENCE: 24
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308 <213> ORGANISM: Artificial Sequence
310 <220> FEATURE:
311 <223> OTHER INFORMATION: oligonucleotide .
313 <400> SEQUENCE: 25
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332 <213> ORGANISM: Artificial Sequence
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361 <400> SEQUENCE: 29
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365 <210> SEQ ID NO: 30
366 <211> LENGTH: 33
367 <212> TYPE: DNA
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Errored: Field 223 is mandatory

<210> 71

<211> 30

<212> DNA

<213> Artificial Sequence Sequence

<400> 71

The type of errors shown may exist throughout
the Sequence Listing. Please check subsequent
sequences for similar errors.

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/766,442

DATE: 08/16/2001
TIME: 12:50:30

Input Set : A:\00023546.txt
Output Set: N:\CRF3\08162001\I766442.raw

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L:862 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:862 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION: *Errored*